There should be separate fonts for chords:

C^7

chord with a specially designed ⁷ (the seven has a good weight compared to the C and the top is aligned with the preceding character)

\mathbb{C}^7

chord with a scaled 7 (the seven is too thin compared to the C and placed higher)

Hb +

The flats and sharps should be smaller, about the size of the preceding character (something like the example). The sharp should be centered on the preceding character and the flat aligned to the baseline. Also the weight should be correct (unlike the example).