Research have found that childhood trauma could result in negative emotions and mental diseases. However, the association between childhood trauma and pleasantness of self-referential criticism have not been revealed. We introduced Childhood trauma questionnaire, which has been widely used in different studies, to evaluate participants’ childhood trauma degree. Participants were asked to complete a childhood trauma questionnaire, and we used the score to analyze their trauma. We also designed an evaluation task in which we rated participants’ pleasantness facing self-referential criticism and praise. Results showed that pleasantness of self-referential criticism and praise has association with childhood trauma. To be more accurate, participants who have suffered childhood trauma would feel more pleasant toward self-referential criticism than those who haven’t experienced childhood trauma. The findings may help to fully understand impacts of childhood trauma.